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CLAIMS

- 1. -53. (Canceled.)
- 54. (Currently Amended) A surgical instrument for applying high frequency electrical energy to tissue at a target site comprising:
 - a shaft having a proximal end and a distal end;
- an electrode terminal having an active electrode surface at or near the distal end of the shaft, the active electrode surface comprising a hemispherical geometry;
 - an electrode support that holds the electrode terminal;
 - an electrically conductive fluid supply delivering electrically conductive fluid in the vicinity of the electrode terminal wherein said electrically conductive fluid has an electrical conductivity of at least 0.2 mS/cm; and
 - a connector extending from the electrode terminal to the proximal end of the shaft.
- 55. (Previously presented) The surgical instrument of claim 54 further comprising a return electrode positioned on the shaft proximal to the electrode terminal.
- 56. (Amended) The surgical instrument of <u>claim 55</u> elaim 54 wherein the return electrode is a substantially annular band positioned proximal to the electrode terminal.
- 57. (Previously presented) The surgical instrument of claim 54 wherein a distal portion of the shaft is bent.
- 58. (Currently Amended) The surgical instrument of claim 57 wherein a distal portion includes a bend of 10 to 30 degrees 10 30 degrees.

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- 59. (Previously presented) The surgical instrument of claim 54 wherein the electrode terminal has a tissue treatment surface adapted to minimize dissociation and breakdown of collagen fibers in the tissue and to minimize ablation of tissue surrounding the collagen fibers
- 60. (Previously presented) The surgical instrument of claim 56 wherein the tissue treatment surfaces of the electrode terminal has a surface area less than about 1 mm².
- 61. (Previously presented) The surgical instrument of claim 54 wherein said electrode support comprises an inorganic material.
- 62. (Previously presented) The surgical instrument of claim 61 wherein said inorganic material is glass.
- 63. (Previously presented) The surgical instrument of claim 61 wherein said inorganic material comprises a ceramic.
- 64. (Previously presented) The surgical instrument of claim 63 wherein said inorganic material further comprises glass.
- 65. (Currently Amended) A surgical instrument for applying high frequency electrical energy to tissue at a target site comprising:
 - a shaft having a proximal end and a distal end;
 - a hemispherical-shaped electrode terminal;
 - an annular return electrode spaced proximally from said electrode terminal;
 - an electrically conductive fluid supply delivering electrically conductive fluid in the vicinity of the electrode terminal wherein said electrically conductive fluid has an electrical conductivity of at least 0.2 mS/cm and wherein said electrically conductive fluid sets up a conductive path between the return electrode and the electrode terminal; and

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a connector extending from the electrode terminal to the proximal end of the shaft.

- 66. (Previously presented) The surgical instrument of claim 65 further comprising an electrode support configured to hold the electrode terminal, said electrode support being nonelectrically conducting.
- The instrument of claim 54 wherein said electrical conductivity of said 67. (New) fluid is at least 2 mS/cm.
- The instrument of claim 54 wherein said electrical conductivity of said 68. (New) fluid is at least 10 mS/cm.
- The instrument of claim 54 wherein said electrical conductivity of said 69. (New) fluid is about 17 mS/cm.
- An electrosurgical system for applying high frequency electrical energy to 70. (New) a target site comprising:
- a device comprising a shaft having a proximal end and a distal end, a hemispherical-shaped electrode terminal arranged at the distal end, an annular return electrode spaced proximally from said electrode terminal, and a connector extending from the electrode terminal to the proximal end of the shaft;
 - a power supply configured to supply a voltage difference between said electrode terminal and said return electrode; and
 - a fluid source for providing an electrically conductive fluid to the target site and said fluid having an electrical conductivity of at least 0.2 mS/cm.